

Journal of Medical Signals and Sensors (JMSS)

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Special Issue Invitation:

In addition to regular paper submission to JMSS, we are happy to invite the authors to submit their papers to the following special issue:

Special issue on IoT-Enabled Sensor Systems for Drone-Based Remote Patient Monitoring

As drones equipped with Internet of Things (IoT) capabilities are used more often for surveillance, the delivery process, and imaging, privacy and security issues have surfaced. Security breaches, privacy invasions, and the collection of private data are all possible with drones. As a result, it has grown essential to have sophisticated technology for automatic drone identification. In unconventional healthcare settings, remote patient monitoring (RPM) has improved physicians' capacity to monitor and care for patients. RPM gathers health information from people in one place, such as a patient's residence, and electronically sends it to medical professionals in another place for evaluation and advice. Due to the wireless nature of communication, interaction between the drones and their respective ground station server (GSS) as well as between the drones and the IoT smart devices mounted in animal bodies is vulnerable to a variety of passive and active assaults. Because it involves human lives, remote patient monitoring systems (RPMS) are regarded as one of the most important fields.

Drones offer a low-cost, risk-free way to swiftly and continuously monitor environmental conditions at high spatial-temporal resolution, which aids in wildlife monitoring studies. RPMS technologies for physiologic parameter monitoring in terms of their programs, building design, and issues. Despite their complexity, RPM interventions have a higher chance of being successful in lowering acute hospital events if interventions are planned with patients, providers, and the implementation environment in mind and take into account the

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important factors this review found. the cooperative combination of robots, drones, and the internet of things (IoT), demonstrating the manner in which this convergence is transforming industrial capacities and operations. Given that the global epidemic began, RPMS usage has risen, but there are still certain issues, including mobility, heterogeneous networks, RPMS standardization, automation, and Quality of Service (QoS). It explores how IoT sensors and devices improve the intelligence, efficiency, and autonomy of robotic systems and drones while facilitating real-time data analysis and interchange. a paradigm change in terms of the potential for remote patient tracking and monitoring, with improved information transmission across patients and medical providers.

In order to improve flexibility, dependability, and sustainability in healthcare logistics, this special issue presents an IoT-drone system. Drones provide for quick last-mile delivery, avoiding obstacles including congestion and inadequate infrastructure, while IoT sensors guarantee ongoing monitoring for customer satisfaction. Through the utilization of digitally communicated health-related data, remote patient monitoring, also recognized as telemonitoring, seeks to improve patient care. This facilitates patient education, enhances the patient-physician interaction, and enables early illness decomposition and intervention identification.

Topics of inters:

- AI-powered IoT-based drone-assisted healthcare services with a private security architecture
- Creating a safe access control system for the deployment of Internet of Drones powered by IoT
- A complete evaluation of remote patient monitoring using non-invasive digital technology
- Artificial intelligence-based remote patient monitoring: current status, uses, and difficulties
- Effective protection architecture for IoT-empowered drones: Machine learning opinion
- A realistic evaluation of the variables affecting the efficacy of remote patient monitoring treatments
- Protocol for access management in an IoT context with drone assistance for conflict surveillance

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- An Internet of Things architecture for an usable safe drone surveillance system
- Predictive assessment of drones' ideal signal strength using Internet of Things frameworks
- Network management for remote patient monitoring using a patient agent
- Multimodal wireless access networks for remote patient monitoring: design and efficiency

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Important Dates:

- ✓ **Submission deadline:** November 15, 2025
- ✓ **Author notification:** January 25, 2026
- ✓ **Revised papers due:** March 28, 2026
- ✓ **Final notification:** June 10, 2026
- ✓ **The Publication of the special issue will as per the policy of journal**

The authors should register in <https://review.iow.medknow.com/jmss> to submit their work to JMSS. It's a self-explanatory and simple two-step process.

NOTE: Authors should mention in the cover letter which special issue their article is related to.